

AMENDMENTS TO THE CLAIMS

The claims in this listing replaces all prior versions and listings of claims in the application.

1-35. (Canceled)

36. (New) A radio transmission apparatus, comprising:

an antenna having first and second linear polarization antenna elements that extend perpendicular to each other; and

a phase controller that multiplies transmission signals for one of said first linear polarization antenna element or said second linear polarization antenna element by a reference signal to invert a polarity of the transmission signal corresponding to said reference signal.

37. (New) The radio transmission apparatus of claim 36, wherein said first and second linear polarization antenna elements are positioned with longitudinal directions of said first and second linear polarization antenna elements crossing.

38. (New) The radio transmission apparatus of claim 36, wherein said first and second linear polarization antenna elements are spaced at an interval on a plane with a longitudinal relationship between said first and second linear polarization antenna elements indicative of twisted positions.

39. (New) The radio transmission apparatus of claim 36, wherein said first and second linear polarization antenna elements are spaced at an interval with a longitudinal relationship between said first and second linear polarization antenna elements indicative of an angle.

40. (New) A radio reception apparatus, comprising:

a receiver that receives a first signal transmitted in a predetermined polarization plane and a second signal transmitted in a polarization plane different from the predetermined polarization plane;

an electric field strength detector that detects a received electric field strength of said first signal and said second signal; and

a determiner that, upon processing said first signal and said second signal, performs data determination on an as-is basis with respect to data of a signal of a strong electric field strength, and, that, with respect to data of a signal of a weak electric field strength, inverts said data of said signal of said strong electric field strength to make said determination, said signal of a weak electric field strength being weaker than said signal of a strong electric field strength.

41. (New) The radio reception apparatus of claim 40, wherein said determiner comprises:

a D-flip flop that receives as input, data to be corrected, and as gate input, a delayed judge result; and

an X-NOR gate that receives as input, an output of said D-flip flop and said judged result.